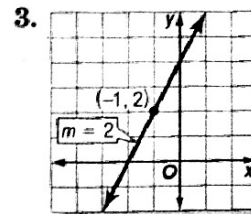
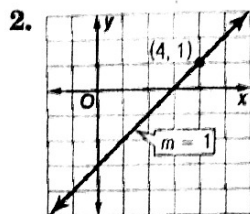
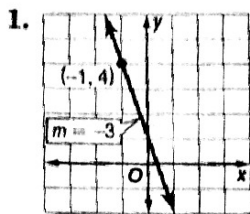


5-4

Skills Practice

Writing Equations in Slope-Intercept Form

Write an equation of the line that passes through each point with the given slope.



4. $(1, 9), m = 4$

5. $(4, 2), m = -2$

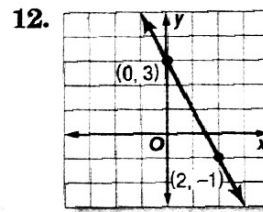
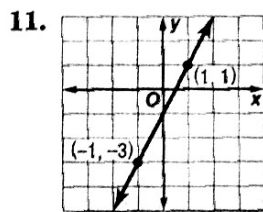
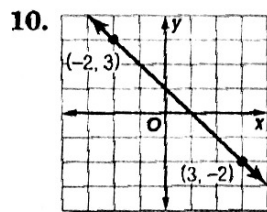
6. $(2, -2), m = 3$

7. $(3, 0), m = 5$

8. $(-3, -2), m = 2$

9. $(-5, 4), m = -4$

Write an equation of the line that passes through each pair of points.



13. $(1, 3), (-3, -5)$

14. $(1, 4), (6, -1)$

15. $(1, -1), (3, 5)$

16. $(-2, 4), (0, 6)$

17. $(3, 3), (1, -3)$

18. $(-1, 6), (3, -2)$

Write an equation of the line that has each pair of intercepts.

19. x -intercept: -3 , y -intercept: 6

20. x -intercept: 3 , y -intercept: 3

21. x -intercept: 1 , y -intercept: 2

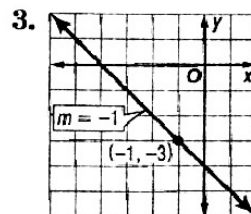
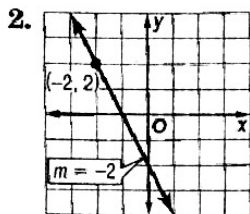
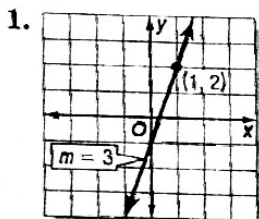
22. x -intercept: 2 , y -intercept: -4

23. x -intercept: -4 , y -intercept: -8

24. x -intercept: -1 , y -intercept: 4

5-4 Practice**Writing Equations in Slope-Intercept Form**

Write an equation of the line that passes through each point with the given slope.

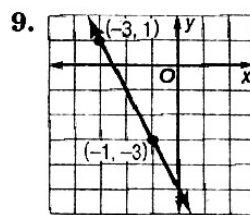
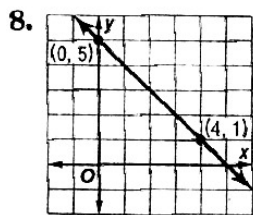
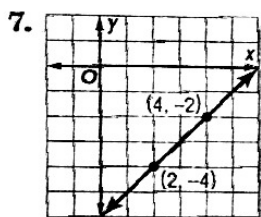


4. $(-5, 4), m = -3$

5. $(4, 3), m = \frac{1}{2}$

6. $(1, -5), m = -\frac{3}{2}$

Write an equation of the line that passes through each pair of points.



10. $(0, -4), (5, -4)$

11. $(-4, -2), (4, 0)$

12. $(-2, -3), (4, 5)$

13. $(0, 1), (5, 3)$

14. $(-3, 0), (1, -6)$

15. $(1, 0), (5, -1)$

Write an equation of the line that has each pair of intercepts.

16. x -intercept: 2, y -intercept: -5

17. x -intercept: 2, y -intercept: 10

18. x -intercept: -2, y -intercept: 1

19. x -intercept: -4, y -intercept: -3

20. **DANCE LESSONS** The cost for 7 dance lessons is \$82. The cost for 11 lessons is \$122. Write a linear equation to find the total cost C for ℓ lessons. Then use the equation to find the cost of 4 lessons.

21. **WEATHER** It is 76°F at the 6000-foot level of a mountain, and 49°F at the 12,000-foot level of the mountain. Write a linear equation to find the temperature T at an elevation e on the mountain, where e is in thousands of feet.